RF AMPLIFIER MODEL *QB-991*

Available as: QB-991, SMA Connectorized Housing (080-22930)

Preliminary

Features

- Ultra Broadband Amplifier with 14 db of Gain (Typical)
- Noise Figure: 4 dB Typical
- High Reverse Isolation
- Single Supply Operation (Other Supply Voltages Available)

Absolute Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -40ºC to +85
Storage Temperature ..... -65ºC to +125 ºC
DC Voltage ..... +16 Volts
RF Input Power (CW)[2] ..... +17 dBm

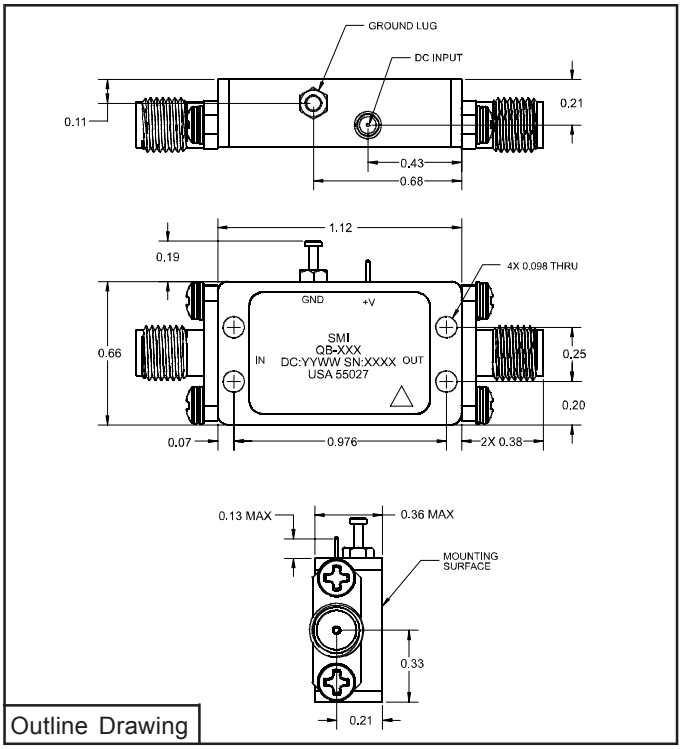
Specifications[1]

CHARACTERISTIC	TYPICAL Ta= 25 ºC	MIN/MAX Ta = 25 ºC
Frequency	2 - 20 GHz	2 - 20 GHz
Gain (dB)	14	13 / 15
Gain var. Over Temp. (dB)	+0.5 / -0.5	+1.0 / -1.0
Gain Flatness (dB)	±0.3	±0.75 Max.
Reverse Isolation (dB)	40	30 Min.
VSWR In	1.5:1	2.0:1 Max.
Out	1.4:1	2.0:1 Max.
Output Power @ 1 dB Compression (dBm)	+17	+14 Min.
Noise Figure (dB)	4.0	6.0 Max.
Output Intercept Point (dBm) 3rd Order	+31	+28 Min.
Power Vdc	+12	+12
mA	140	155 Max.

Notes:

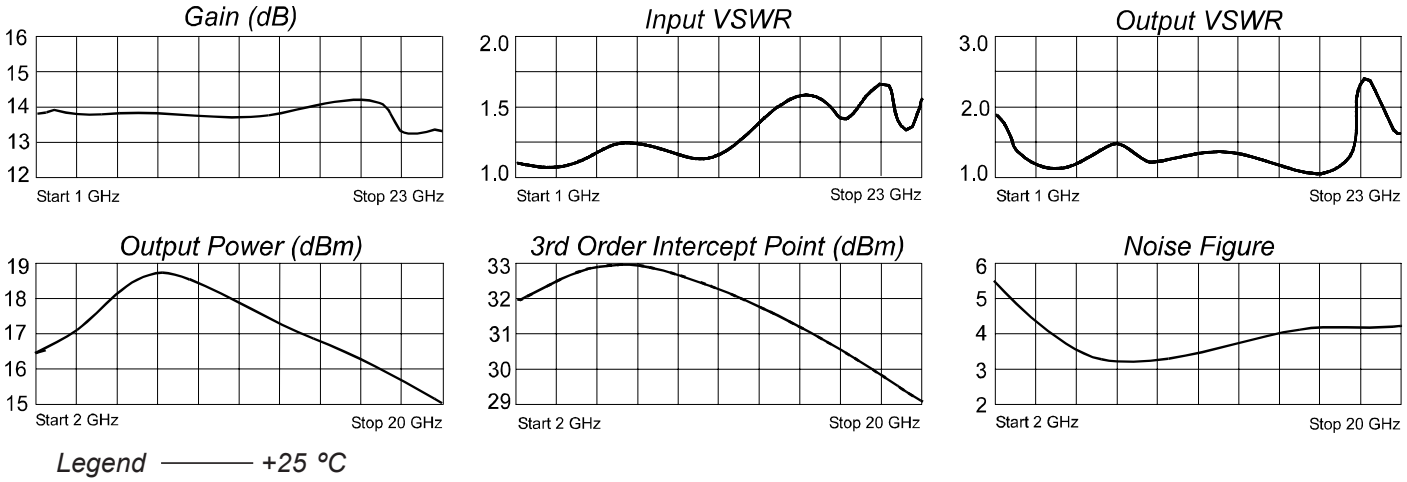
1. All specification ratings are based on measurements in a 50 ohm system with a DC supply voltage tolerance of ±1%.

2. RF output terminated into 50 ohms.



Outline Drawing

Typical Performance Data



Legend ——— +25 ºC

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